

AMENDMENT AND PRESENTATION OF CLAIMS

Please replace all prior claims in the present application with the following claims, in which claim 1 is canceled without prejudice or disclaimer, and claims 2-41 are newly presented.

1. (Canceled)

2. (New) A method for providing wireless monitoring, the method comprising:
receiving a control signal specifying a value on a line from a monitoring device according to a physical layer signaling protocol to initiate communication with a computing device;
setting status of the line in response to the control signal;
changing the status of the line to establish communication with the computing device upon receiving acknowledgement from the computing device;
receiving data from a monitoring device according to the physical layer signaling protocol;
and
transmitting the data to the computing device according to the physical layer signaling protocol over a wireless point-to-point link using a cellular protocol.

3. (New) A method according to claim 2, wherein the cellular protocol includes a Cellular Digital Packet Data (CDPD) protocol.

4. (New) A method according to claim 2, wherein the physical layer signaling protocol includes RS-232, the monitoring device and the computing device being configured as Data Terminal Equipment (DTE).

5. (New) A method according to claim 2, wherein the wireless link is transparent to an application that resides on the computing device and utilizes the physical layer signaling protocol.

6. (New) A method according to claim 2, wherein the monitoring device in the receiving step includes at least one of a flow measurement device, a temperature measurement device, and a pressure measurement device.

7. (New) An apparatus for providing wireless monitoring, comprising:
a first interface configured to receive a control signal specifying a value on a line from a monitoring device according to a physical layer signaling protocol to initiate communication with a computing device, wherein status of the line is set in response to the control signal, the status being changed to establish communication with the computing device upon receiving acknowledgement from the computing device; and
a second interface configured to transmit data from the monitoring device to a computing device according to the physical layer signaling protocol over a wireless point-to-point link using a cellular protocol, wherein the wireless link is transparent to an application that resides on the computing device and utilizes the physical layer signaling protocol.

8. (New) An apparatus according to claim 7, wherein the cellular protocol includes a Cellular Digital Packet Data (CDPD) protocol.

9. (New) An apparatus according to claim 7, wherein the physical layer signaling protocol includes RS-232, the monitoring device and the computing device being configured as Data Terminal Equipment (DTE).

10. (New) An apparatus according to claim 9, the wireless link is transparent to an application that resides on the computing device and utilizes the physical layer signaling protocol.

11. (New) An apparatus according to claim 7, wherein the monitoring device includes at least one of a flow measurement device, a temperature measurement device, and a pressure measurement device.

12. (New) A method for providing wireless monitoring, the method comprising:
receiving a packet from a monitoring device to initiate communication with a computing device, the packet indicating a status of a first line;
changing the status of the first line;
receiving acknowledgement to establish the communication upon the computing device setting a second line;
receiving data from the monitoring device according to a physical layer signaling protocol over a wireless point-to-point link using a cellular protocol; and
transmitting the data to a computing device according to the physical layer signaling protocol.

13. (New) A method according to claim 12, wherein the cellular protocol includes a Cellular Digital Packet Data (CDPD) protocol.

14. (New) A method according to claim 12, wherein the physical layer signaling protocol includes RS-232, the monitoring device and the computing device being configured as Data Terminal Equipment (DTE).

15. (New) A method according to claim 14, wherein the wireless link is transparent to an application that resides on the computing device and utilizes the physical layer signaling protocol.

16. (New) A method according to claim 12, wherein the monitoring device in the receiving step includes at least one of a flow measurement device, a temperature measurement device, and a pressure measurement device.

17. (New) An apparatus for providing wireless monitoring, comprising:
a first interface configured to receive a control signal from a monitoring device to initiate communication with a computing device according to a physical layer signaling protocol over a wireless point-to-point link using a cellular protocol, the control signal indicating a status of a first line;
logic configured to change the status of the first line; and
a second interface configured to receive an acknowledgement to establish the communication with the computing device upon the computing device setting a second line.

18. (New) An apparatus according to claim 17, wherein the cellular protocol includes a Cellular Digital Packet Data (CDPD) protocol.

19. (New) An apparatus according to claim 17, wherein the physical layer signaling protocol includes RS-232, the monitoring device and the computing device being configured as Data Terminal Equipment (DTE).

20. (New) An apparatus according to claim 19, wherein the wireless link is transparent to an application that resides on the computing device and utilizes the physical layer signaling protocol.

21. (New) An apparatus according to claim 17, wherein the monitoring device includes at least one of a flow measurement device, a temperature measurement device, and a pressure measurement device.

22. (New) A method for providing wireless monitoring, the method comprising:
generating data by an application based upon measurements, the application complying with a physical layer signaling protocol; and
transmitting the data according to the physical layer signaling protocol to a modem, wherein the cellular modem transmits the data to a computing device according to the physical layer signaling protocol over a wireless point-to-point link using a cellular protocol, wherein the wireless link is transparent to the application and to a receiving application that resides on the computing device and utilizes the physical layer signaling protocol.

23. (New) A method according to claim 22, wherein the cellular protocol includes a Cellular Digital Packet Data (CDPD) protocol.

24. (New) A method according to claim 22, wherein the physical layer signaling protocol includes RS-232, the computing device being configured as Data Terminal Equipment (DTE).

25. (New) A method according to claim 24, further comprising:

sending a control signal specifying a value on a line to the modem to initiate communication with the computing device, wherein the modem sets status of the line to a first state and changes the status of the line to a second state upon receiving acknowledgement from the computing device.

26. (New) A method according to claim 22, wherein the measurements in the generating step include at least one of flow measurements, temperature measurements, and pressure measurements.

27. (New) An apparatus for providing wireless monitoring, comprising:
memory storing an application for generating data based upon measurements, the application complying with a physical layer signaling protocol; and
an interface configured to transmit the data according to the physical layer signaling protocol to a modem, wherein the cellular modem transmits the data to a computing device according to the physical layer signaling protocol over a wireless point-to-point link using a cellular protocol, wherein the wireless link is transparent to the application and to a receiving application that resides on the computing device and utilizes the physical layer signaling protocol.

28. (New) An apparatus according to claim 27, wherein the cellular protocol includes a Cellular Digital Packet Data (CDPD) protocol.

29. (New) An apparatus according to claim 27, wherein the physical layer signaling protocol includes RS-232, the computing device being configured as Data Terminal Equipment (DTE).

30. (New) An apparatus according to claim 29, wherein the interface sends a control signal specifying a value on a line to the modem to initiate communication with the computing device, wherein the modem sets status of the line to a first state and changes the status of the line to a second state upon receiving acknowledgement from the computing device.

31. (New) An apparatus according to claim 27, wherein the measurements include at least one of flow measurements, temperature measurements, and pressure measurements.

32. (New) A method for providing wireless monitoring, the method comprising:
receiving data generated according to a physical layer signaling protocol from a remote monitoring device via a local modem over a wireless point-to-point link using a cellular protocol; and
processing the data according to an application utilizes the physical layer signaling protocol, wherein the wireless link is transparent to the application.

33. (New) A method according to claim 32, wherein the cellular protocol includes a Cellular Digital Packet Data (CDPD) protocol.

34. (New) A method according to claim 32, wherein the physical layer signaling protocol includes RS-232, the monitoring device being configured as Data Terminal Equipment (DTE).

35. (New) A method according to claim 34, further comprising:
receiving a packet from the monitoring device to initiate communication with the computing device, the packet indicating a status of a first line; and

setting a second line to acknowledge establishment of the communication with the monitoring device.

36. (New) A method according to claim 32, wherein the monitoring device in the receiving step includes at least one of a flow measurement device, a temperature measurement device, and a pressure measurement device.

37. (New) An apparatus for providing wireless monitoring, comprising:
an interface configured to receive data generated according to a physical layer signaling protocol from a remote monitoring device via a local modem over a wireless point-to-point link using a cellular protocol; and
logic configured to process the data according to an application utilizes the physical layer signaling protocol, wherein the wireless link is transparent to the application.

38. (New) An apparatus according to claim 37, wherein the cellular protocol includes a Cellular Digital Packet Data (CDPD) protocol.

39. (New) An apparatus according to claim 37, wherein the physical layer signaling protocol includes RS-232, the monitoring device being configured as Data Terminal Equipment (DTE).

40. (New) An apparatus according to claim 39, wherein the interface receives a packet from the monitoring device to initiate communication with the computing device, the packet indicating a status of a first line, and a second line is set to acknowledge establishment of the communication with the monitoring device.

41. (New) An apparatus according to claim 37, wherein the monitoring device includes at least one of a flow measurement device, a temperature measurement device, and a pressure measurement device.